

Serial No. 10/572,820
Art Unit 2624

Docket PU030274
Customer No. 24498

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LISTING OF THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently amended) A method for simulating film grain in an input image block, in which film grain has been at least partially filtered out, comprising the steps of:
 - (a) computing an average value of at least one image parameter for the block;
 - (b) selecting a film grain block from at least one previously established pool of film grain blocks whose image parameter most closely matches the image parameter of the input image block;
 - (c) blending the selected film grain block with the input image block.
2. (Original) The method according to claim 1 further comprising the step of de-blocking the selected film grain block prior to blending with the input image block.
3. (Original) The method according to claim 1 wherein the previously established film grain blocks are organized in the at least one pool based on image intensity.
4. (Original) The method according to claim 1 further including the step of updating the at least one pool in accordance with characteristics of the input image.
5. (Original) The method according to claim 3 where a different film grain block is selected for at least one of a different color component.
6. (Original) The method according to claim 1 further including the step of transforming the selected block prior to the blending step.
7. (Original) The method according to claim 1 further comprising the step of selecting a film grain block from a plurality of pools of film grain blocks.
8. (original) A method for simulating film grain in an input image from which the film grain has at least been attenuated and been decomposed into input image blocks, comprising the steps of:

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- (a) selecting a successive one of a set of input image blocks;
- (b) computing an average value of at least one image parameter for the successive block;
- (c) selecting, from among at least one pool of previously established film grain blocks, a film grain block having image parameter most closely matches the average value of the at least one image parameter of the successive block;
- (d) repeating steps (a)-(c) for all the pixel blocks in the image; and
- (e) blending the selected film grain blocks to yield an output image with film grain.

9. (Original) The method according to claim 8 wherein the previously established film grain blocks are organized in the at least one pool based on image intensity.

10. (Original) The method according to claim 8 further including the step of updating the at least one pool of pre-established film grain blocks in accordance with characteristics of the input image.

11. (Original) The method according to claim 8 where a different film grain block is selected for at least one of a different color component.

12. (Original) The method according to claim 7 further including the step of transforming the selected block prior to repeating steps (c) - (d).

13. (Original) The method according to claim 8 further comprising the step of selecting a film grain block from among a plurality of pools of film grain blocks.

14. (Original) The method according to claim 8 further comprising the step of de-blocking the successive film grain block prior to repeating steps (c) - (d)